

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1. **(Currently Amended)** A method comprising:  
receiving information at a content server; ~~information from at least one content provider;~~  
storing at least one portion of the information;  
sending the at least one portion of the information to a user terminal for display on the user terminal;  
receiving notification of active keys, ~~the active keys~~ associated with a current display of the at least one portion of the information ~~displayed~~ on the user terminal;  
receiving additional information at the content server, the additional information including a later version of the at least one portion of the information;  
~~determining at the content server if any of the at least one portion of the information has changed by identifying~~ identifying changed information parts by determining one or more differences between the later version of the at least one portion of the information and ~~prior the stored at least one portion of the information; previously stored in a data store of the content server;~~  
updating ~~in the data store the~~ stored at least one portion of the information based on the changed information parts; and ~~from the at least one content provider that has changed; and~~  
transmitting ~~to the user terminal the~~ changed information parts associated with the active keys to the user terminal ~~from the at least one content provider that has changed without also transmitting unchanged parts of the stored at least one portion of the information, information, the changed information being real-time information.~~
2. **(Currently Amended)** The method recited in claim 1, wherein the received information comprises a plurality of real-time data values, ~~from the content provider.~~

3. **(Currently Amended)** The method recited in claim 2, wherein the received additional information comprises an additional plurality of real-time data values, and wherein the updating of information from the content provider further comprises:

accessing a hash table containing a the plurality of ~~prior~~ real-time data values using a plurality of keys associated with the plurality of real-time data values;

determining whether the additional plurality of real-time data values ~~received from the content provider has changed~~ includes changes from the ~~prior~~ plurality of real-time data values contained in the hash table; and

updating the ~~prior~~ values of the plurality real-time data values contained in the hash table using values of the additional plurality of real-time data values that reflect determined changes, with the plurality of real-time values received from the content provider when the plurality of real-time data values received from the content provider has changed from the plurality of prior real-time data values contained in the hash table.

4. **(Currently Amended)** The method recited in claim 3, wherein the transmitting ~~of the plurality of real-time data values associated with the active keys that have been updated in the hash table to the user terminal~~ further comprises:

activating a data thread when a ~~real-time data~~ value of the plurality of ~~prior~~ real-time data values is updated in the hash table;

determining ~~the~~ a position on a screen of the user terminal corresponding to the ~~real-time data~~ updated value in the hash table;

transmitting the updated value in the hash table ~~real-time data value associated with an active key~~ to the user terminal for display on the screen of the user terminal in the position ~~indicated~~ determined.

5. **(Previously Presented)** The method recited in claim 4, wherein the activating step comprises activating the data thread using remote method invocation.

6. **(Currently Amended)** The method recited in claim 3, further comprising:

spawning a data server thread in response to receiving a connection request from the user terminal;

retrieving, by the data server thread, a user defined portfolio containing a plurality of keys;

generating an activated HTML page containing an embedded applet and sending the activated HTML page to the user terminal;  
monitoring the plurality of keys contained in the user defined portfolio; and  
identifying new ~~currently~~ active keys of said of the plurality of keys from the embedded applet.

7. **(Cancelled)**

8. **(Currently Amended)** The method recited in claim 6, comprising:  
determining that whether a shutdown request has been was made; and  
disconnecting all connections to the user terminal in response to determining  
~~when~~ the shutdown request was made.

9. **(Currently Amended)** The method recited in claim 8, comprising:  
retrieving ~~the plurality of~~ real-time data values on a periodic basis.

10. **(Currently Amended)** The method recited in claim 9, comprising:  
notifying the a data server thread when a received real-time data value reflects a change over a previously received real-time data value ~~a real-time data value of the plurality of data that values have changed~~.

11. **(Currently Amended)** The method recited in claim 6, comprising:  
determining whether a page change ~~changed~~ is required;  
receiving, by the data server thread, a plurality of new active keys; and  
transmitting the additional plurality of real-time data values to the user terminal through the data server thread using the new active keys.

12. **(Currently Amended)** A computer-readable medium having computer-executable instructions ~~A computer program executable by computer and embodied on a computer-readable medium~~ comprising:

a real-time data server code segment configured to receive real-time data values ~~from at least one content provider~~, receive active keys that are associated with at least one portion of information currently displayed on a ~~the real-time data values from at least one~~ user terminal, determine changed ~~if any of the real-time data values have changed from a~~

~~prior real-time data values~~ by identifying one or more differences between the received real-time data values and the prior real-time data values, and transmit one or more of the changed ~~real-time~~ data values associated with the one or more of the active keys without also transmitting unchanged data values to the ~~at least one~~ user terminal when any of the real-time data values associated with the one or more of the active keys has have changed ~~from the prior real-time data values~~.

13. **(Currently Amended)** The computer-readable medium of claim 12 The ~~computer program recited in claim 12~~, wherein the real-time data server code segment further comprises:

instructions executable to store ~~a hash table storing~~ the prior real-time data values in a hash table and update the stored prior real-time data values with the changed data values, and being updated when the real-time data values from the content provider have changed from the prior real-time data values.

14. **(Currently Amended)** The computer-readable medium of claim 13 The ~~computer program recited in claim 13~~, wherein the real-time data server code segment further comprises:

a web engine server module code segment to access a database having a portfolio generated by a user and generate an HTML page and applet, wherein upon receipt of a connection request from the user terminal the web engine server module code segment downloads the HTML page and applet to the user terminal ~~code segment~~.

15. **(Currently Amended)** The computer-readable medium of claim 13 The ~~computer program recited in claim 13~~, wherein the real-time data server code segment further comprises:

a source filter server module code segment to receive the real-time data values, ~~from a content provider and determine if the real-time data values have changed~~ reflect changes from stored prior real-time data values, ~~stored,~~ and activate a data thread code segment when ~~the a real-time data values have changed~~ reflects a change from a stored prior real-time data values value.

16. **(Currently Amended)** The computer-readable medium of claim 15 ~~The computer program recited in claim 15~~, wherein the real-time data server code segment further comprises:

executable instructions ~~a realtime data server module code segment~~ to communicate ~~between to~~ the user terminal ~~code segment and from~~ the source filter server module code segment through the data ~~server~~ thread code segment.

17. **(Currently Amended)** The computer-readable medium of claim 15 wherein ~~The computer program recited in claim 16~~, further comprising:

the a source filter server module code segment ~~to receive the real-time data values from the content provider; and includes instructions executable to~~ update the hash table based on the received real-time values.

18. **(Cancelled)**

19. **(Currently Amended)** The computer-readable medium of claim 13 ~~The computer program recited in claim 13~~, further comprising:

a web server module code segment to communicate to the user terminal ~~code segment~~ and retrieve a portfolio specified ~~by the user terminal code segment~~ from a database; and

a pagination engine module code segment, in communication with the web server module code segment, to create ~~the~~ an HTML page and applet code segment based on the portfolio selected and the size of a screen on a user terminal.

20. **(Cancelled)**

21. **(Cancelled)**

22. **(Cancelled)**

23. **(Cancelled)**

24. **(Cancelled)**

25. **(Cancelled)**

26. (Cancelled)

27. (Cancelled)

28. (Cancelled)

29. (Cancelled)

30. (Cancelled)

31. (Cancelled)

32. (Cancelled)

33. (Cancelled)

34. (Cancelled)

35. (Currently Amended) An apparatus A real-time server computer comprising memory storing computer executable code modules that each comprise computer executable instructions stored in the memory, said code modules comprising:

a source filter server module configured to receive ~~that receives~~ data from a real-time content provider, and store stores the received data in a keyed hash table;

a real-time data server module comprising submodules including:

a client connection submodule configured to establish ~~that establishes~~ a data server thread connection with a remote mobile terminal;

wherein the real-time data server module is configured perform operations when ~~anythe~~ data server thread connection receives an active key request from the remote mobile terminal, the ~~real-time data server module performs a method~~ operations including a) querying ~~a~~ the keyed hash table for corresponding data; b) determining whether the queried data differs from data currently displayed on ~~previously sent to~~ the remote mobile terminal; ~~and~~ c) sending the queried data to the remote mobile terminal when the queried data differs from the data currently displayed on ~~previously sent to~~ the remote mobile terminal; ~~and~~ d) not sending the queried data to the remote mobile terminal when the queried data does not differ from the data currently displayed on the remote mobile

~~terminal; the queried data is sent to the remote mobile terminal, otherwise the queried data is not sent to the remote mobile terminal; and~~

a web engine server module configured to communicate ~~that communicates~~ formatted data to the remote mobile terminal based on the queried data.

36. **(New)** The apparatus of claim 35, wherein the source filter server module is configured to:

access the keyed hash table containing a plurality of prior real-time data values using a plurality of keys associated with a plurality of later real-time data values;

determine whether the plurality of later real-time data values includes changes over the prior plurality of real-time data values contained in the keyed hash table; and

update the prior plurality real-time data values contained in the keyed hash table based on the determined changes.

37. **(New)** The apparatus of claim 36, wherein the web engine server module is configured to:

retrieve a portfolio selected by a user;

generate an activated HTML page containing an embedded applet for the portfolio; and

download the activated HTML page to the remote mobile terminal.

38. **(New)** The apparatus of claim 36, wherein the real-time data server module is configured to:

monitor the plurality of keys; and

identify currently active keys of said plurality of keys.

39. **(New)** The apparatus of claim 38, wherein the real-time data server module is configured to:

read the currently active keys;

determine if the currently active keys have changed;

update the keyed hash table with real-time data values for the currently active keys; and

download the updated real-time values for the currently active keys to the remote mobile terminal.

40. **(New)** The apparatus of claim 39, wherein the real-time data server module is configured to:

determine whether a shutdown request was made; and

disconnect all connections to the remote mobile terminal in response to the shutdown request.